

KOSTYUK, O.M. (Kiyev)

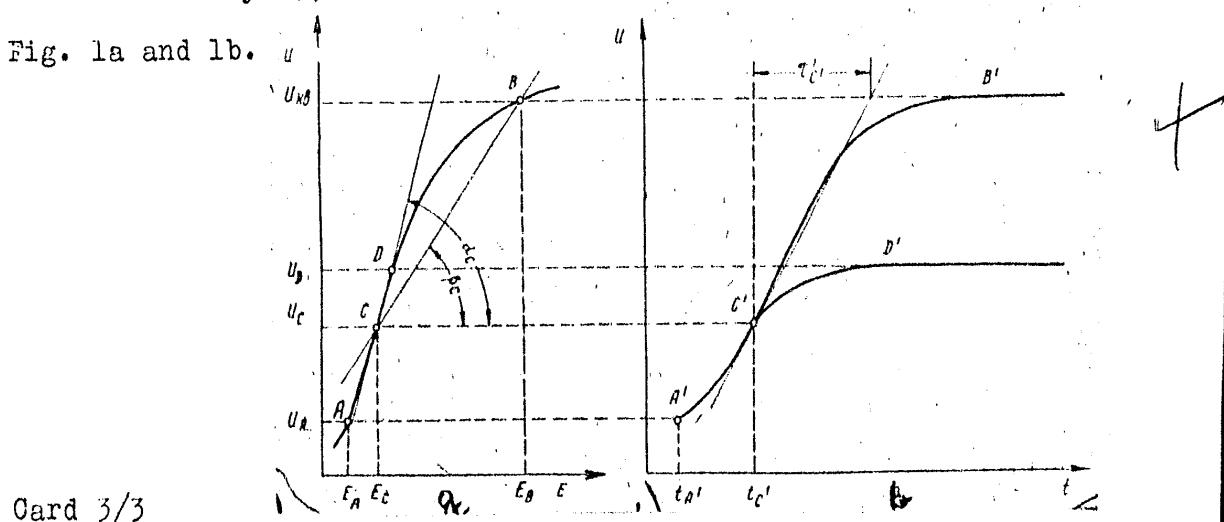
Problem concerning the invariance of the output coordinate of  
a nonlinear control object with unstable parameters. Avtomatyka  
no.6:10-14 '61. (MIRA 14:12)  
(Automatic control)

30978  
S/102/60/000/004/005/006  
On the question of the experimental ... D251/D304

where the variables have the values shown in the graphs. There are 2 figures.

SUBMITTED: May 19, 1960

Fig. 1a and 1b.



Card 3/3

30978  
S/102/60/000/004/005/006

On the question of the experimental ... D251/D304

the non-linearity of the element. It is stated that Eq. (1) may be considered as linear, in the majority of cases for moderate or differentially small deviations of U and E, i.e.  $f_1(U)$  and  $f_2(U)$  assume constant values and their ratio  $f_2/f_1$  is the time constant  $\tau$ .

It is shown that in cases when the real system gives rise to a linearized system, for non-linear elements, then there are necessary time constants either for the whole series or for all points of the static characteristic of the element. By experimental (oscillograph) methods, curves are constructed for the static characteristic

$$Uf_1(U) = E \quad (3)$$

(Fig. 1a) and for the dynamic transference of the static characteristic from point A to point B (Fig. 1b). The time characteristic for the point C is given by

$$\tau_c = \tau_{c'} \cdot \frac{\operatorname{tg} \alpha_c}{\operatorname{tb} \beta_c} \quad (12)$$

Card 2/3

*16,4000 (1329, 1344, 1132)*

30978

S/102/60/000/004/005/006  
D251/D304AUTHOR: Kostyuk, O.M. (Kiev)TITLE: On the question of the experimental determination of  
the time constant of non-linear elements of the first  
order

PERIODICAL: Avtomatyka, no. 4, 1960, 74 - 77

TEXT: The author states the two general forms of the differential  
equation of an element of the first order

$$Uf_1(U) + \frac{dUf_2(U)}{dt} = E, \quad (1)$$

or

$$Uf_1(U) + \left[ U \frac{df_1(U)}{dU} + f_2(U) \right] \frac{dU}{dt} = E, \quad (2)$$

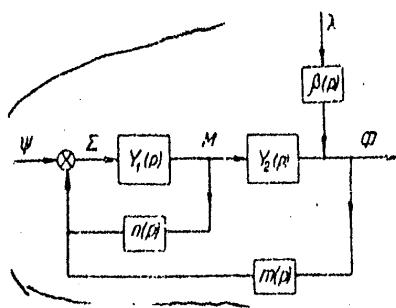
where  $U$  and  $E$  are output and input coordinates of the element,  $f_1(U)$  are some functions of the output coordinate which characterize  
Card 1/3

Equivalence condition...

27584  
S/102/61/000/001/002/005  
D274/D303

$\lambda$  represents (under certain conditions) the flexible feedback. In the case, differential feedback makes it possible to introduce the derivatives of  $\phi$  in the control law. In conclusion, the described properties of differential control systems show that these systems can be used in the solution of many linear- and nonlinear problems. There are 4 figures and 2 Soviet-bloc references.

SUBMITTED: June 9, 1960



Card 5/6

Fig. 1

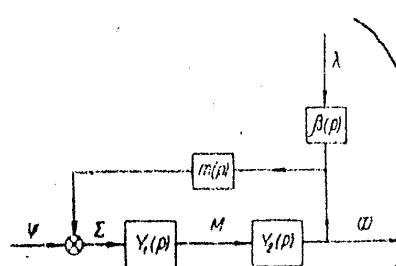


Fig. 2

Equivalence condition...

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S/102/61/000/001/002/005  
D274/D303

(in principle) the design of controllers with minimum power for steady-state conditions. Further, a circuit diagram is shown which differs from Fig. 1 only by the fact that feedback  $m$  is applied not to the input of  $Y_1$ , but to its output. In this case, the equivalence condition becomes

$$n(p)Y_1(p) + m(p)Y_2(p) = 0. \quad (18)$$

Condition (18) differs from (7) by the fact that it holds (absolutely) for linear systems only. The equivalence conditions (7) and (18) are of great practical value, as they determine quite simply the requirements towards the feedback loops from considerations of dynamical characteristics of the system. An example is given illustrating the use of Eq. (7) for the case  $Y_1$  is a d.c.-generator and  $Y_2$  a resistor. Further, the case is considered when the equivalence conditions are satisfied for steady-state conditions only, i.e. for  $p = 0$  only. Then to Eq. (4) corresponds the circuit diagram of Fig. 4 and

$$I(p) = \frac{n(p) + m(p)Y_2(p)}{Y_2(p)} \quad (20)$$

Card 4/6

Equivalence condition...

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S/102/61/000/001/002/005  
D274/D303

$$\dot{\Phi} = Y_1(p)Y_2(p)\Psi + [1 + m(p)Y_1(p)Y_2(p)]\beta(p)\lambda. \quad (9)$$

To Eq. (9) correspond the compound circuit with directly measured noise, as shown in Fig. 2. In such a circuit, the noise  $\lambda$  is fed to  $Y_1$  by  $m$ , this process depending on the transfer function of  $m$  only. It is noted that the invariance condition can be written in the form

$$1 + m(p)Y_1(p)Y_2(p) = 0, \quad (13)$$

for systems which are described by Eq. (9). Conditions (5) and (13) differ by the fact that (13) applies to linear systems only, (or to systems whose nonlinear networks compensate each other). If condition (5) holds for steady state, the sum  $\Psi + m(p)\dot{\Phi}$  is identically zero. This means that the output power of  $\Psi$  is zero in the steady state, irrespective of the condition of the controlled element, i.e. the controller function in steady-state conditions is assumed exclusively by the feedback with respect to  $n$ . This could be (in the author's opinion) of great practical importance, as it would allow

Card 3/6

Equivalence condition...

27504  
S/102/61/000/001/002/005  
D274/D303

quality of flexible (adaptive) feedback. The circuit diagram of Fig. 1 is considered,  $Y_1$  and  $Y_2$  denote two units,  $n$  and  $m$  - feedbacks,  $\Phi$  - the controlled variable,  $\Psi$  - the controller function,  $\lambda$  - a noise,  $\Sigma$  and  $M$  - input variables. The control law is given by

$$\Sigma = \Psi + n(p)M + m(p)\Phi, \quad (1)$$

where  $n(p)$  and  $m(p)$  are operator polynomials whose form is analogous to that of transfer functions. For  $\Phi$  one obtains

$$\Phi = \frac{Y_1(p)Y_2(p)\Psi + [1 - n(p)Y_1(p)]\beta(p)\lambda}{1 - n(p)Y_1(p) - m(p)Y_1(p)Y_2(p)}. \quad (4)$$

From Eq. (4) follows that  $\Phi$  will be independent of the noise  $\lambda$  if the invariance condition

$$1 - n(p)Y_1(p) = 0, \quad (5)$$

holds. In the particular case

$$n(p) + m(p)Y_2(p) = 0, \quad (7)$$

which represents the equivalence condition, one obtains

Card 2/6

27584  
16.8000(1121,1132,1329)

S/102/61/000/001/002/005  
D274/D303

AUTHOR: Kostyuk, O.M. (Kyyiv)

TITLE: Equivalence condition between differential control systems and systems controlled by noises

PERIODICAL: Avtomatyka, no. 1, 1961, 26-31

TEXT: A differential feedback system (with respect to the input- and output variable of the controlled element) is considered which satisfies the equivalence condition as defined by the author (Ref. 1: Korektsiya po temperaturi, petli gisterezisy ta neliniynosti v sistemakh avtomatychnogo reguliyuvannya za dopomogoyu zvychaynykh zvorotnykh zv'yazkiv, Avtomatyka, no. 3, 1960) and also by Eq. (7) below. It is shown that if the equivalence condition holds absolutely, the differential feedbacks are equivalent to a so-called compound circuit of the directly measured noises, and if the equivalence applies to steady state conditions only, then the differential feedbacks assume, with respect to the controlled variable, the additional

Card 1/6

KOSTYUK, O.M. (Kiyev)

Experimental determination of the time constants of nonlinear elements of the first order. Avtomatyka no.4:74-77 '60.

(MIRA 13:11)  
(Automatic control)

21101

S/102/60/000/003/001/006  
C 111/ C 333

Correction for Temperature, Hysteresis Loop and Nonlinearity in  
Automatic Control Systems With the Help of Ordinary Feedbacks

possess a term  $W_2$  with an unstable characteristic of type (1). The  
equations of the system then are

$$(3) \quad U_1 = Z_1(p) X(t) + Z_2(p) U_4 + Z_3(p) U_2 + g(t), \quad U_2 = W_1(p) U_1,$$
$$U_3 = W_2(p) U_2, \quad U_4 = U_3 + e(t), \quad X(t) = W_3(p) U_4.$$

From this it follows

$$(4) \quad X(t) = \frac{W_3(p) [1 - W_1(p)Z_3(p)] e(t) + W_1(p)W_2(p)W_3(p)g(t)}{1 - W_1(p) [W_2(p)W_3(p)Z_1(p) + W_2(p)Z_2(p) + Z_3(p)]}.$$

The system is invariant with respect to  $e(t)$ , if it is chosen

$$(6) \quad Z_3(p) = \frac{1}{W_1(p)}.$$

Here it must be  $Z_2(s) \neq 0$ , for if the system is cut open in A and  
if  $g(t)$  and  $e(t)$  are disconnected, then the transmission function of  
the arising open chain (if (6) is satisfied) is

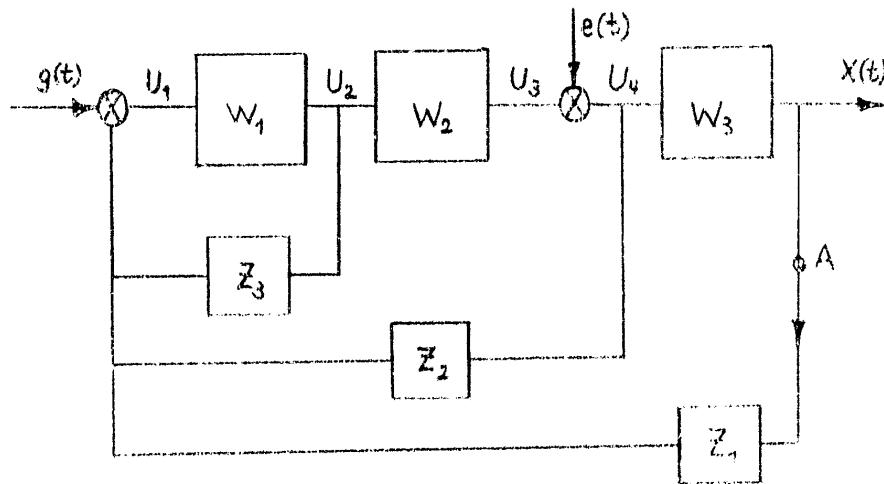
Card 3/4

Card 4/4

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S/102/60/000/003/001/006  
C 111/ C 333

Correction for Temperature, Hysteresis Loop and Nonlinearity in  
Automatic Control Systems With the Help of Ordinary Feedbacks



Card 2/4

2b. 2/95

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2b. 2/95

S/102/60/000/003/001/006  
C 111/ C 333

AUTHOR: Kostyuk, O. M.

TITLE: Correction for Temperature, Hysteresis Loop and Nonlinearity  
in Automatic Control Systems With the Help of Ordinary  
Feedbacks

PERIODICAL: Avtomatika, 1960, No. 3, pp. 1-6

TEXT: Let the static characteristic of an essentially non-linear  
or unstable term be written in the form

$$(1) \quad U_o = \alpha U_i + e(\lambda),$$

where  $U_o$  and  $U_i$  are the output and input coordinates,  $\alpha$  is a  
proportionality factor and  $e(\lambda)$  the deviation of the characteristic  
from the linear curve. Since then it is

$$(2) \quad e(\lambda) = U_o - \alpha U_i,$$

$e(\lambda)$  can be measured with the aid of two feedbacks of opposite sign.  
Let for instance the system of figure 2

Card 1/4

KOSTYUK, O.M.

Current transformers with superposed magnetization by direct current  
and special features in their design for automatic control circuits  
in the excitation of synchronous generators. Sbor. trud. Inst.  
elektrotekh. AN URSR no.16:135-152 '59. (MIRA 12:9)  
(Electric transformers) (Electric generators)

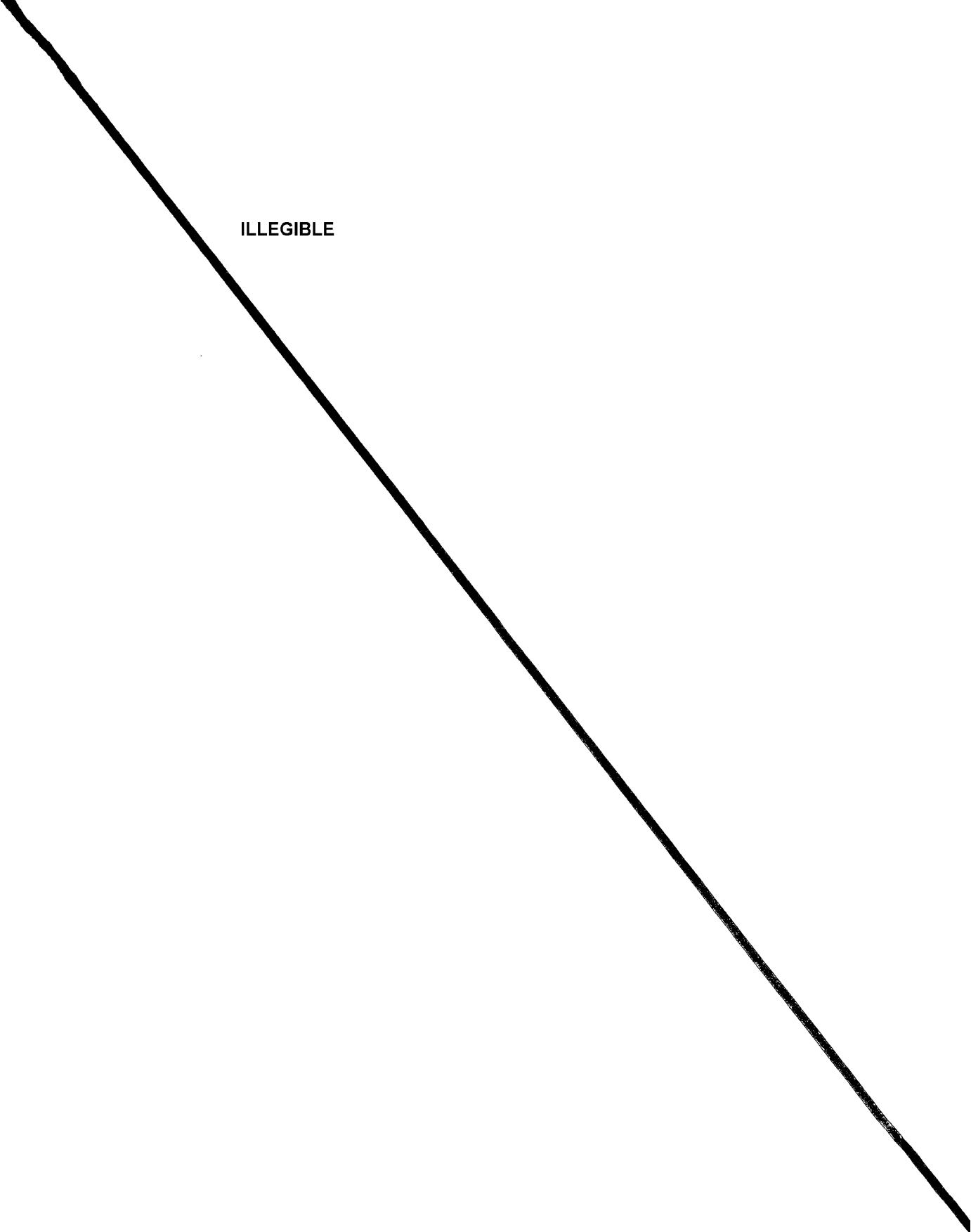
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growing, etc., and I asked -- (distr. "late" -- the application of one  
of the following implements -- sufficient to break off a portion of the  
corporating." (Rev. 1930. 26 pp. 100 numbered (in red) "The  
Corporation". New Edition of Legal Reference Library, Boston, 1930.)  
(D, 28-51, 37)

- 18 -

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000825300039-6

ILLEGIBLE



KOSTYUK, O.M.

Automatic voltage regulator of the UBK type. Avtomatyka no.1:  
95-98 '57. (MLRA 10:5)

1. Institut elektrotekhniki AN URSR.  
(Voltage regulators)

KOSTYUK, O. M.

Experimental investigation of the dynamic regimes of synchronous generators with rapid action automatic control of excitation. Avtomatyka no.1:27-37 '57. (MLRA 10:5)

1. Institut elektrotehniki AN URSR.  
(Electric generators)

YAROSH, B.I.; YAROSH, Ye.N.; VITRIK, S.P.; KHRITTA, I.I.; KOSTYUK, O.I.

Features of the geological structure and oil and gas potential  
of the Kokhanovka-Svidnitza oil field. Neftegaz. geol. i geofiz.  
no.6:3-8 '64. (MIRA 1718)

1. Institut goryuchikh iskopaemykh AN UkrSSR, Ukrainskiy nauchno-  
issledovatel'skiy geologorazvedochnyy institut i trest "Ukrnefte-  
gazrazvedka".

MATSELKO, V.N.; KHRIPTA, I.I.; KOSTYUK, O.I.; YAROSH, B.I.

Medynichi, a new gas field. Neft. i gaz. prom. no. 2:13-16  
Ap-Je '63. (MIPA 17:1)

1. Trest "L'vovneftegazrazvedka" (for Matselko, Khripta,  
Kostyuk). 2. Institut geologii goryuchikh iskopayemykh  
AN UkrSSR (for Yarosh).

KOSTYUK, O.

Kostyuk, O. "A glauconite site in the Belaya River Basin in the Northern Caucasus," Sbornik nauch. rabot st. entov (Rost. n/d gos. un-t im. Molotova), Issue 1, 1949, p. 112-116 --- Bibliog: 7 items

SG: U-3566, 15 March, 1953 (Lenopis 'Zhurnal 'nykh Stately, No. 14, 1949).

RODBORT, S.S., inzhener, (g. Stalino).; KOSTYUK, N.Ye., inzhener, (g. Stalino).

Analysis of the performance efficiency of coal cutter loaders with  
lengthened bars as used in the Donets Basin mines. Ugol' 31 no.10:  
28-30 O '56.

(MLRA 9:11)

(Donets Basin--Coal mining machinery)

KOTYUK, N. V., LAPP, P.E.

Mine Timbering

Withdrawing metal supports from exhausted  
mines. Uspol' 27 no. 8, 1952.

2

9. Monthly List of Russian Accessions, Library of Congress, November 1953, Uncl.

KOSTYUK, N.T.

History of the development of the materialistic theory of cells.  
Nauk. zap. Kyiv. un. 15 no.11:145-154 '56. (MIRA 11:5)  
(Cells) (Science--Philosophy)

GURVICH, G.TS., red.; KOSTYUK, N.S., red.; FASHKEVICH, O.N., red.

[Economics of the peat industry]Ekonomika torfianoi promyshlennosti. Minsk, Akad. nauk BSSR, 1961. 364 p.  
(MIRA 15:9)

1. Akademiya nauk BSSR, Minsk. Instytut ekonomiki.  
(Peat industry)

NAUMCHIK, A.K., inzh.; KOSTYUK, N.S., kand.tekhn.nauk

Some date on the manufacture of peat semibriquets at the  
Chist' peat works. Torf.prom. 37 no.1;30-31 '60.  
(MIRA 13:6)

1. Torfopredopriyatiye Chist' (for Naumchik).
2. Institut torfa AN BSSR (for Kostyuk)  
(Peat)

KOSTYUK, N.S.; MANENKOVA, Ye.K.

Preliminary data on the effect of storing and warming of milled peat  
on its briquetting. Trudy Inst. torf. AN BSSR 9:87-90 '60.

(MIA 14:2)

(Peat) (Briquets (Fuel))

KOSTYUK, N.S.; KUZNETSOVA, S.A.

Moisture and intensity of the lignin, obtained from different fractions. Teudy Inst. Leningrad USSR 9:83-96 (1960) (CIA 1412)  
(Pech.-Drevl.)

KOSTYUK, N.S.; SHADU-SKIY, P.A.

Investigation of certain properties of all oil peat in hi...  
Trudy Inst. torf. AN BSSR 9:54-55 '60. (Z A 11:2)  
(Peat)

OSADCHIY, Ye.A.; KOSTYUK, N.S.

Drain of rain water from the surface of profiled plots. Trudy Inst.  
torf. AN BSSR 9:39-42 '60. (MIRA 14:2)  
(Peat) (Drainage)

OGADOTTY, V.A.; RUSTIN, H.S.

Moisture & peat deposits of collected plants. Total weight 1.4  
BSH 2:30-12 '60.  
(Peat-Dry.)

KOSTYUK, N.S., kand. tekhn. nauk

Basic indices of the operation of the Usiazh, Lukskiy, Buchmany, and  
Tootsi peat briquet factories in 1957-1958. Torf. prom. 36 no.5:17-18  
'59.  
(MIRA 13:1)

1. Institut torfa AN BSSR.  
(Briquets (Fuel)) (Peat)

KOSTYUK, N.S.; BUZUK, A.A.

Mechanical properties of milled peat during storage. Report No.1.  
Trudy inst. torf. AN BSSR 8:138-146 '59. (MIRA 13:12)  
(Peat--Storage)

KOSTYUK, N.S.; BUZUK, A.A.; SOLOV'YEV, Ye.M.

Fractional composition of milled peat in the course of the technological operations of drying and harvesting. Trudy inst. torf.  
AN BSSR 8:106-113 '59. (MIRA 13:12)

(Peat--Drying) (Peat--Harvesting)

KOSTYUK, N.S.

Research on milled peat at the Peat Institute of the Academy of  
Sciences of the White Russian S.S.R. Torf.prom. 35 no.2:28 '58.  
(MIRA 11:5)

1. Rukovoditel' laboratorii Instituta torfa AN BSSR.  
(Peat)

KOSTYUK, N.S.; SADOVNICHII, V.V.; BUZUK, A.A.

Two-stage method for winning deeply lying peat with a  
high-bitumen content. Trudy Inst. torf. AN BSSR 6:527-531  
'57.

(MIRA 11:?)

(Peat) (Bitumen)

KOSTYUK

MALYSHEV, F.A., kand.tekhn.nauk; KOSTYUK, N., red.; BARTMAN, B., tekhn.red.

[Hydromechanization of peat winning for fertilizers] Gidromekhaniza-  
tsiya dobychi torfa na udobrenie. Minsk, 1957. 87 p. (MIRA 11:5)  
(Peat machinery)

BEL'KEVICH, Petr Illerionovich [Bial'kevich, P.]; KOSTYUK, Nestor  
Semenovich [Kastsiuk, N.]; TERESHCHANKO, Ul. [TSireshchanka,  
Ul.], red.; STEPANOVA, N. [Stsiapanava], tekhn.red.

[Peat as fuel and raw material in White Russia] Torf - paliwnais  
i syravinnia baza BSSR. Minsk, Dzirzhaunae vyd-va BSSR. Red.  
palit.lit-ry, 1957. 40 p. (MIRA 13:4)  
(White Russia---Peat)

KOSTYUK, N., inzhener.

Fuller utilization of cutter-loader potentialities. Mast.ugl.5  
no.9:7-8 S '56. (MIRA 9:10)  
(Donets Basin--Coal mining machinery)

15-57-10-15069

. Qualitative Indices of Bituminous Peat (Cont.)

engineer A. S. Sasim (?) experimented on the extraction of material from peat by benzol. This work was done in large-scale laboratory apparatus at the peat experimental station of the Academy of Sciences of the Belorusskaya SSR. The peat was given a preliminary sifting. Material with a particle size ranging from 1 mm to 10 mm was used for the extraction process. The experiments show that the extraction of bitumen from peat to obtain peat wax is possible from cut peat.

Card 2/2

A. A. Kostin

15-57-10-15069

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 10,  
pp 290-291 (USSR)

AUTHORS: Kostyuk, N. S., Bazuk, A. A.

TITLE: Qualitative Indices of Bituminous Peat Extracted by the  
Cutting Method (Kachestvennyye pokazateli bituminoznogo  
torfa, dobytogo frezernym sposobom)

PERIODICAL: Izv. AN ESSR, ser. fiz.-tekhn. n., 1956, Nr 3, pp 147-  
149

ABSTRACT: In order to test the possibility of extracting bitumen  
(peat wax) from cut peat, experiments were made in 1955  
at the peat experimental station "Dukora." These  
experiments included the extraction of the peat and a  
study of the different products prepared from it. The  
peat was cut by the roll cutter FD-4 to a depth of 10 mm  
to 11 mm, turned three times by turning paddles, and  
compressed by the roller VUF-3. Because of the lack of  
a gathering machine, the peat was removed by hand. The

Card 1/2

KOSTYUK, N.S.; BUZUK, A.A.

Determination of the volumetric shrinkage of block peat. Trudy  
Inst.torf. AN BSSR 4:157-162 '55. (MLRA 9:3)  
(Peat)

KOSTYUK, N.S., kandidat tekhnicheskikh nauk.

Results of investigations of the winning of small cylindrical  
peat blocks. Trudy Inst.torf. AN BSSR 4:49-59 '55. (MIRA 9:3)  
(Peat machinery)

KOSTYUK, N.S.

✓4743. RESULTS OF RESEARCH ON THE WINNING OF PEAT IN SMALL CYLINDRICAL  
PIECES. Kosyuk, N.S. (Trud. Inst. Toraia Akad. Nauk Belorusk. SSR (Trans.  
FU Inst. Peat White Russ. S.S.R.), 1955, vol. 4, 30-48; title in Tora. Prom.  
(Peat Ind., Moscow), 1955, (1), 39).

BEL'KEVICH, P.I.; KOSTYUK, N.S.

Principal courses of scientific activity and results of studies by  
the Peat Institute of the White Russian Academy of Sciences.  
Trudy Inst.torf.AN BSSR 4:5-19 '55. (MLRA 9:3)  
(Peat)

KOSTYUK,N.S., kandidat tekhnicheskikh nauk.

Operating patterns of spreading machines with BEM-2 units;  
from work practice of "Tugolitsa" peat enterprise in 1951-  
1952. Izv. AN BSSR no. I:59-63 Ja-JI '53. (MIRA 9:1)  
(Peat machinery)

KOSTYUK, N. S.

Peat

The friction coefficient of sliding peat. Sber. nauch. trud. inst. torfa  
AN BSSR no. 1, 1951

9. Monthly List of Russian Accessions, Library of Congress, August 1953. Unclassified.

KOSTYUK, N. S. (Engineer)

"External Sliding Friction Coefficients of Steel." Thesis for degree of Cand. Technical Sci. Sub 30 Jan 50, Moscow Peat Inst.

Summary 71, 4 Sep 52, Dissertations Presented for Degrees in Science and Engineering in Moscow in 1950. From Vechernaya Moskva, Jan-Dec 1950.

USSR/Technical Crops. Oil Plants. Sugar Plants.

M

Abs Jour: Ref Zhur-Biol., No 17, 1958, 7771.

Author : Kostyuk, N.I.

Inst

Title : Square-Nest Distribution of Cotton in the  
Kirgiz SSR.

Orig Pub: V sb.: Materialy Ob"yedin. nauchn. sessii po  
khlopkovodstvu, T.I. Tashkent, Gosizdat UzSSR,  
1958, 520-525.

Abstract: No abstract.

Card : 1/1

KOLESNIKOVA, A.A.; KOSTYUK, N.G.; CHERNOMUROVA, V.M.; SHCHEGOLEV,  
D.Ye.; LOTYSHEV, I.P., red.

[Gelendzhik and its surroundings] Gelendzhik i ego okre-  
stnosti. Krasnodar, Krasnodarskoe knizhnoe izd-vo, 1964.  
78 p. (MIRA 18:1)

L'VOV, S.V.; FAL'KOVSKIY, V.B.; KOSTYUK, N.G.; STARKOV, A.V.; GOLENKOVA,  
I.B.; KUSKOVA, N.B.; TYURICHEVA, T.A.

Continuous method of preparation of isovaleric acid from isoamyl  
alcohol by a catalytic reaction. Zhur.prikl.khim. 35 no.3:700-  
701 Mr 62. (MIRA 15:4)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni  
M.V.Lomonosova.  
(Isovaleric acid) (Isopentyl alcohol)

KOSTYUK, N.G.; L'VOV, S.V.; FAL'KOVSKIY, V.B.; STARKOV, A.V.; LEVINA, N.M.

Preparation of anhydrides of higher carboxylic acids by the  
reaction of transanhidridization. Zhur.prikl.khim. 35 no.3:  
698-699 Mr '62. (MIRA 15z4)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni  
M.V.Lomonosova.

(Anhydrides)

KOSTYUK, M.L.

Ontogeny of the wheat nematode *Anguina tritici* Steinbuch.  
Trudy Gel'm. lab. 16:47-54 '65.

State of anabiosis in some plant helminths. Ibid.:55-57

Distribution of total protein, nucleic acids, lipids, and  
polysaccharides in the organism of the wheat nematode  
*Anguina tritici* Steinbuch; dynamics of the expenditure and  
accumulation of these substances in the course of ontogeny.  
Ibid.:58-62 (MZh 19:2)

KOSTYUK, N.A.

Method of total staining of fat in the organs of some nematodes. Zool.  
zhur. 43 no.6:929-930 1964.  
(MIRA 17:32)

i. All-Union Research Institute of Phytopathology, Golitsyno, Moscow  
Region.

KOSTYUK, M.I., tekhnik

Reconditioning worn-out tips of automatic and semiautomatic welders.  
Svar.pracizv. no.10:37 O '64. (MIRA 18:1)

1. Zelenodolskiy zavod im. A.M.Gor'kogo.

IZRAYLEVICH, M.L., inzh.; KOSTYUK, M.A., inzh.; LAZDAN, E.Ye., inzh.

New vibratory conveyers. Mekh.i avtom.proizv. 16 no.3:30-33  
Mr '62. (MIRA.15:4)  
(Conveying machinery)

AUTHOR:

KOSTYUK, M.I., GREBNEV, A.A., OSTAPENKO, P.E., PA - 2393  
and STIMACHEVA, M.A., Crushing and Sorting Plant of the "Pobeda"  
Shaft and Scientific Institute for Mining Research. (Drobil'no-  
sortirovochnaya fabrika shakty "Pobeda" i Nauchno-issledovatel'  
skiy gornorudnyy institut).

TITLE:

Improvement of the Granulometric Composition of the Krivoy Rog  
Iron Ores for Sintering. (Uluchsheniye zernovogo sostava  
krivorozhskikh aglorud, Russian).

PERIODICAL:

Stal', 1957, Vol 17, Nr 2, pp 114 - 118, (U.S.S.R.)  
Received: 5 / 1957

Reviewed: 5 / 1957

ABSTRACT:

The ores supplied from Krivoy Rog at present do not meet the demands  
made by metallurgists as regards their granulometric composition  
and their degree of averaging. In order to improve their granulo-  
metric composition experiments were carried out in the crushing-  
and sorting plant of the "Pobeda" shaft. Since even with the use  
of wide screen apertures the screens are obstructed quickly -  
which leads to waiting periods up to 3 hours for heaving them  
cleaned again - an electric preheating of the sieves with low  
voltage current was introduced in a number of mills. The physical  
character of the process taking place under the influence of the  
current has been but little investigated. Here the attempt is made  
to explain this process: The topmost part of the ore particles in  
contact with the wire of the sieve receives the heat from the  
metal, transfers its humidity to the inner layers, becoming

Card 1/2

KOSTYUK, L.V. (Kiyev)

Experimental myocardial infarct in animals of various ages.  
Vest. AMN SSSR 18 no.2:77-84 '63. (MIR 17:5)

1. Institut gerontologii i eksperimental'noj patologii AMN SSSR.

BUSHMAKINA, Z.I.; VERKHATSKIY, N.S.; KONSTANTINOVSKIY, G.A.; KOSTYUK, L.V.;  
KUZ'MINSKAYA, U.A.; KUL'CHITSKIY, K.I.; MIL'KO, V.I.; PROL'KIS, V.V.

Neurohumoral regulation of the cardiovascular system in experimental  
arteriosclerosis. Vrach. delo no.1:3-11 Ja '62. (Mild 15:2)

1. Institut gerontologii i eksperimental'noy patologii AMN SSSR,  
Kiyevskiy meditsinskiy institut.  
(ARTERIOSCLEROSIS) (CARDIOVASCULAR SYSTEM)  
(REFLEXES)

KOSTYUK, L.V., <sup>and med Sci -- (diss)</sup> "Morphology  
and certain functional changes in ~~the~~ infarcts of  
<sup>normal and</sup> the myocardium in ~~xx~~ animals with high blood  
pressure." Kiev, 1958, 15 pp (Kiev Order of  
Labor Red Banner Med Inst im Academician A.A.  
Bogomolets) 200 copies (KL, 29-58, 130)

KOSTYUK, L.V.

Comparative morphological characteristics of myocardial infarction  
in animals with a normal and high arterial pressure. Vrach. delo  
no.3:241-245 Mr '57 (MIRA 10:5)

1. Kafedra patologicheskoy anatomi (zav.-zasl. deyatel' nauki,  
prof. M.K. Dal') Kiyevskogo instituta usovershenstvovaniya vrachey.  
(HEART--INFARCTION) (BLOOD PRESSURE)

KOSTYUK, L.V.

Some peculiarities of the course of experimental myocardial infarction in animals with induced high blood pressure [with summary in English]. Fiziol.zhur. [Ukr.] 3 no.1:73-83 Ja-F '57. (MLRA 10:3)

1. Institut fiziologii im. O.O.Bogomol'tsya Akademii nauk URSR,  
laboratoriya fiziologii krovoobigui i dikhannya.  
(HEART--INFARCTION) (HYPERTENSION)

I-58182-65

ACCESSION NR: AR5015510

ENCLOSURE: 01

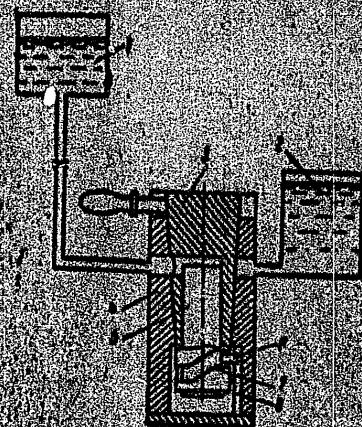


Fig. 1. 1--airtight vessel; 2--airtight delivery vessel; 3--plug; 4--valve housing; 5--piston; 6--pin; 7--guide slot on the plug stem; 8--vertical slot in the valve housing.

AMZ  
Card 3/3

I-501552-65  
ACCESSION NR.: AP5015519

own axis when the plug is rotated.

ASSOCIATION: Leningradsky Kirovsky zavod KB-5 (Leningrad Kirov Factory KB-5)

SUBMITTED: 06Jun63

ENCL: 01

SUB CODE: IE

NO REF Sov: 100

OTHUR: 00

Cord 2/3

L-58182-45

ACCESSION NR: AF5015519

UR/0286/65/000/008/0056/0056  
681.421.144

AUTHOR: Begdanov, V. I.; Kostyuk, I. Z.; Sinev, N. M.

TITLE: Liquid batcher. Class 42, No. 170179

SOURCE: Byulleten' izobretensii i tovarnykh znakov, no. 8, 1965, 56

TOPIC TAGS: dosimeter, liquid batcher, plug valve, liquid level control

ABSTRACT: This author's Certificate introduces: 1. A liquid batcher which consists of an air-gas delivery vessel, a plug valve, a cylinder and a piston. During operation the piston is alternately connected with radial channels in the valve housing through radial channels in the plug. The device is designed for delivering batches of liquid to an air-gas vessel where the pressure is higher than in the delivery vessel. The cylinder is cut in the valve plug and the piston has a pin which extends beyond the body of the plug. A guide channel cut into the plug stem moves this pin along the vertical when the plug is rotated. 2. A modification of this batcher which has a vertical groove cut in the interior surface of the valve body as a guide for the pin. This keeps the piston from turning about its

Card 1/3

KOSTYUK I. Ye

SOROKINA, O. P.; KOSTYUK, I. Ye.

Effect of Sandagou mineral water on chronic gastritis and  
gastroduodenal ulcer. Klin. med., Moskva 29 no.8:74-75  
Aug 1951. (CML 20:11)

L 47456-66 EWP(t)/EWP(m)/EWP(v)/T/EWP(k)/EWP(h)/EWP(l) DJ

ACC NR: AP6030637

SOURCE CODE: UR/0413/66/000/016/0149/0149

INVENTOR: Sadchenkov, V. V.; Musin, E. I.; Uvarov, V. G.; Kostyuk, I. Ye. 37

ORG: none

TITLE: A device for the manual and automatic coupling and uncoupling of hydraulic systems. Clas: 72, No. 185241

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovernyye znaki, no. 16, 1966, 149

TOPIC TAGS: hydraulic equipment, auxiliary aircraft equipment, valve

ABSTRACT: This Author Certificate introduces a device for the manual and automatic coupling and uncoupling of hydraulic systems such as those found in aircraft. It consists of outer and inner half-joints. The outer half-joint contains a nipple joint and a floating frame with a movable valve seat and a spring. The inner half-joint includes a fixed frame with a valve inside. For easier separation and smoother operation, without any lateral displacements when coupled, the movable valve of the inner half-joint has a channel connection with the outside atmosphere, and the floating frame of the outer half-joint has hinged spring-supported rods. The rods include a tooth for tripping onto the valve guide shoulder of the inner half-joint; and the nipple joint has a rigidly mounted compensating gear with a screwed-on bushing which contains a contoured projection to activate the rods during separation.

Orig. art. has: 1 figure.

[SA]

SUB CODE: 13, 01/ SUBM DATE: 19Mar65

Card 1/1 661

UDC: 623.419; 621.643

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000825300039-6

KOSTYUK, I. Ye.  
A

SUBCLASSES AND SUBORDINATES 191

**Antigenic and immunogenic properties of typhus phagocytate and its precipitate.** M. S. Anchevskaya and I. E. Kostyuk. *Z. Mikrobiol., Epidemiol. Immunobiolog.* (U.S.S.R.) 1939, No. 5, 31-8; *Chem. Zentr.* 1939, II, 1109. Typhus phagocytate possesses stronger antigenic and immunogenic properties than monomacroglobulin.

W. A. Moore

## ASM-SEA METALLURGICAL LITERATURE CLASSIFICATION

1324-034370  
44141-000-020 14:

KOSTYUK, IVAN

VOL'SKIY, Vasiliy Grigor'yevich; KOSTYUK, Ivan Grigor'yevich

[Corn cultivation practices in the western provinces of the Ukraine]  
Agrotekhnika vyrashchuvannia kukurudzy v zakhidnykh oblastiakh  
Ukrainy. Lviv, Knyzhkovo-zhurnal'ne vyd-vo, 1955. 63 p.

(MLRA 10:4)

(Ukraine--Corn(Maize))

DUBINSKIY, A.A.; KOSTYUK, I.F.; LANTODUR, L.Yu.

Dialyzable fraction of the blood serum reacting with diphenylamine  
and its clinical importance. Vop. med. khim. 11 no. 4:91-94  
Jl.-Ag '65. (MIRA 18.8)

1. Kafedra gospital'noy terapii lecheb'nogo fakulteta Khar'kovskogo meditsinskogo instituta.

KOSTYUK, G.Ye., inzh., red.; KLIMOVA, G.D., red. izd-va; BOROVNEV, N.K.,  
tekhn. red.

[Norms and technical specifications for planning sheep farms SN 130-60]  
Normy i tekhnicheskie usloviia proektirovaniia ovtsevodcheskikh ferm  
SN 130-60. Moskva, Gos. izd-vo lit-ry po stroit., arkhit. i stroit.  
materialam, 1961. 12 p. (MIRA 14:7)

1. Russia (1923- U.S.S.R.) Gosudarstvennyi komitet po delam stroitel'-  
stva.

(Sheep houses and equipment)

RUZIN, B.V., kand.ekonom.nauk; KOSTYUK, G.Ye., inzh.; NEFEDOV, S.F.,  
inzh., red.; ZAKHARENKO, V.I., red.izd-va; LYTKINA, L.S.,  
red.izd-va; STEPANOVA, E.S., tekhn.red.

[Using precast reinforced concrete and reed in rural  
construction] Opyt primeneniia sbornogo zhelezobetona i  
kamysha v sel'skom stroitel'stve. Pod red. S.F.Nefedova.  
Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i stroit.  
materialam, 1959. 74 p. (MIRA 12:9)

(Farm buildings) (Precast concrete construction)  
(Reed (Botany))

RUZIN, Boris Vasil'yevich; OSMOLOVSKIY, M., redaktor; KOSTYUK, G.Ye.,  
inzhener, redaktor; DMITRIYEVA, N.I., redaktor izdatel'stva;  
MEDVEDEV, L.Ya, tekhnicheskiy redaktor; GUSHEVA, S.S., tekhnicheskiy  
redaktor

[Building with clay materials] Stroitel'stvo iz glinosyrtsovykh  
materialov. Pod obshchey red. M.Osmolovskogo. Moskva, Gos. izd-vo  
lit-ry po stroit. i arkhitekture, 1956. 133 p. (MLRA 10:2)  
(Building) (Clay)

RUZIN, Boris Vasil'yevich; OSMOLOVSKIY, M., obshchiiy red.; KOSTYUK,  
G.Ye., inzh., red.; DMITRIYeva, N.L., red.izd-va; MEDVEDEV,  
L.Ya., tekhn.red.; GUSEVA, S.S., tekhn.red.

[Above construction] Stroitel'stvo iz gainosyrtsovykh materi-  
alov. Pod obshchei red. M.Osmolovskogo. Moskva, Gos.izd-vo  
lit-ry po stroit. i arkhit., 1956. 133 p. (MIRA 13:1)  
(Building, Adobe)

KOSTYUK, G. S.

"Cisenza kak faktor povysheniya effektivnosti obnaruzhiteli"

report submitted for 15th Intl Cong, Intl Assn of Applied Psychology, Ljubljana,  
Yugoslavia, 2-8 Aug 1964.

Institut psichologii USSR, Kiev.

KOSTYUK, G.S.; MENCHINSKAYA, N.A.; SMIRNOV, A.A.

Urgent tasks of schools and the problems of educational psychology. Vop. psikhologii. 9 no.5:48-60 S-0'63. (MIRA 17:2)

1. Institut psikhologii, Kiyev (for Kostyuk).
2. Institut psikhologii Akademii pedagogicheskikh nauk RSFSR, Moskva (for Menchinskaya, Smirnov).

KOSTYUK, G.S. (Kiyev)

"Child psychology" by D.B.El'konin. Reviewed by G.S.Kostiuk.  
Vop.psichol. no.6139-141 N-D '62. (MIRA 16:2)  
(Child study) (El'konin, D.B.)

KOSTYUK, G.S.

M.V.Lomonosov on the psychology of cognition; on the 250th anniversary  
of his birth. Vop. psikhologii. 7 no.5:9-24 S-0 '61. (MIRA 15:1)

1. Institut psikhologii USSR, Kiyev.  
(LOMONOSOV, MIKHAIL VASIL'EVICH, 1711-1765)

KOSTYUK, G.S.

Psychological problems in the unification of learning and  
productive work. Vop. psichol. 6 no. 6:3-22 N-D '60.

(MIRA 13:12)

1. Institut psichologii USSR, Kiyev.  
(Education) (Work)

ANAN'YEV, B.G., red.; KOSTYUK, G.S., red.; LEONT'YEV, A.N., red.; LURIYA, A.R., red.; MENCHINSKAYA, N.A., red.; RUBINSHTEYN, S.L., red. [deceased]; SMIRNOV, A.A., red.; TEPLOV, B.M., red.; SHEMYAKIN, F.N., red.; PONOMAREV, Ya.A., red.; LAUT, V.G., tekhn.red.

[Psychology in the U.S.S.R.] Psichologicheskaja nauka v SSSR. Moskva. Vol.2. 1960. 653 p. (MIRA 14:1)

1. Akademija pedagogicheskikh nauk RSFSR. Institut psichologii. (Psychology)

KOSTYUK, G. S. [Kostiuk, H.S.]

Concerning the transition from perception to thought. Nauk. zap.  
Nauk.-dosl. inst. psichol. 11;60-63 '59. (MIRA 13:11)

1. Institut psichologii, Kiyev.  
(Perception) (Thought and thinking)

KOSTYUK, G.S. [Kostiuk, H.S.]

Status of research work in the fields of psychology. Nauk. zap. Nauk.-dosl. inst. psichol. 11:5+12 '59. (MIRA 13:11)  
(Ukraine--Psychological research)

ANAN'YEV, B.G., red.; KOSTYUK, G.S., red.; LEONT'YEV, A.N., red.; LURIYA, A.R., red.; MENCHINSKAYA, N.A., red.; RUBINSHTEYN, S.L., red.; SMIRNOV, A.A., red.; TEPLOV, B.M., red.; SHEMYAKIN, F.N., red.; ZHUKOV, I.V., red.; PONOMAREV, Ya.A., red.; MATYUSHKIN, A.M., red.; LAUT, V.G., tekhn.red.

[Psychology in the U.S.S.R.] Psikhologicheskaja nauka v SSSR.  
Moskva. Vol.1. 1959. 597 p. (MIRA 12:8)

1. Akademiya pedagogicheskikh nauk RSFSR, Moscow. Institut psikhologii.

(Psychology)

KOSTYUK, G.S.

"Psychology of teaching arithmetic" by N.A.Menchinskaia. Reviewed by G.S.Kostiuk. Vop.psikhol. 4 no.6:160-165 N-D '58.  
(MIRA 12:1)

(Arithmetic--Study and teaching) (Educational psychology)

(Menchinskaia, N.A.)

KOSTYUK, G.S.

Some problems in the correlation between training and personality development. Vop.psikhol. 2 no.5:3-14 S-0 '56. (MLRA 10:1)

1. Institut psikhologii Ministerstva prosveshcheniya USSR, Kiyev.  
(Education of children) (Child study)

KOSTYUK, G.S., redaktor

[Psychology; a manual for pedagogical institutes] Psjkhologija;  
pidruchnyk dlja pedagogichnykh vuzov. Kyiv, Radians'ka shkola,  
1955. 525 p. (MLRA 10:4)  
(Psychology)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R000825300039-6

KOSTYUK, G. S. , Professor, Institute of Psychology, Kiev

Paper presented at XIV Congress of Psychology held in Montreal in June 1954:

"The Development of Intelligence in the Child: The Genesis of Notion of Number,"  
(Text in Russian and French)

Doklady na Mezhdunarodnom po Psichologii, Izdatel'stvo Akademii Pedagogicheskikh  
Nauk RSFSR, Moscow, 1954, pp 41-55

KOSTYUK, G. S. (Prof.)

"du Developpement de l'Intelligence Chez l'Enfant (la génèse de la notion du nombre)"

Communications at the XIV International Congress of Psychology, Acad. Pedagogical Sci. RSFSR, Moscow, 1954.

Prof. G. S. Kostyuk, Inst. of Psychology, Kiev.

KOSTYUK, G. S.

"I. P. Pavlov's Theories and Philosophical Questions in Psychology" 13 pp

Sov Kniga, No 6, Moscow, June 1953, pp 73-82  
CTS 54, pl20

SENUK, V., inzh.; KOSTYUK, G.I., inzh.

Effect of certain factors on the quality of the shattering of  
rocks crushed in a "press". Izv.vys.ucheb.zav.; gor. zhur.  
6 no. 12:93-96 '63. (MIRA 17:5)

1. Institut gornogo dela Ural'skogo filiala AN SSSR (for Senuk).
2. Shakhta Ekspluatatsionnaya Vysokogorskogo rudoopravleniya  
(for Kostyuk). Rekomendovana kafedroy razrabotki rudnykh mest-  
rozhdeniy Sverdlovskogo gornogo instituta.

KOSTYUK, G. I.

PROKHOROV, Yu.S., gornyy inzhener; KOSTYUK, G.I., gornyy inzhener.

Reinforced concrete scraper platforms. Gor. zhur. no.8:75-76  
Ag '57. (MLRA 10:9)

1. Lebyazhinskoye rudoupravleniye.  
(Mine haulage--Equipment and supplies)

KOSTYUK, G.F.

Building storage ponds for reusable sewage. Sakh.prom. 35 no.7:44-  
45 Jl '61. (MIRA 14:7)

1. Zarozhanskiy sakharnyy zavod.  
(Sugar industry) (Sewage disposal)

KOSTYUK, G.F.

Improving the design of frames for mechanical filters. Sakh.prom.  
28 no.7:33-34 '54. (MLRA 8:1)

1. Yaltushkovskiy sakharannyy zavod.  
(Sugar industry--Equipment and supplies) (Filters and filtration)

KOSTYUK, G.F.

Liquid-solution trap for vacuum apparatus and evaporation with gravity return of waste products for reprocessing. Sakh.prom. 27 no.4:27-30 Ap '53.  
(MLRA 6:6)

1. Yaltushkovskiy sakharnyy zavod.

(Sugar machinery)

KOSTYUK, G.P.

Against one-sided judgment in the evaluation of automation.  
Sakh; prom. 37 no.5:22-23 My '63. (MIRA 16:6)

1. Savintsovskiy sakhariny zavod.  
(Sugar industry) (Automation)

DZYADZIO, A., inzh.; KOSTYUK, G., inzh.; TSYBUL'SKIY, G., inzh.

High-pressure ventilators with increased efficiency coefficient. Muk.-elev. prom. 26 no. 11:27-29.N '60. (MIRA 13:11)

1. Odesskiy tekhnologicheskiy institut im.I.V.Stalina.  
(Flour mills--Heating and ventilation)

0919 2605

KOSTYUK, E.N. [Kostyuk, E.N.] (E.I.Y.V)

Numerical solution of three-dimensional contact problems in the  
theory of elasticity. Trykly, mazn. 10 no. 13 390. 06. 1980.

(MRA 17:10)

1. Kiyevskiy politekhnicheskiy institut.

L 43782-66 EIT(d)/MTP(m)/T DJ  
ACC NR: AP6032351

SOURCE CODE: UR/0021/66/000/005/0593/0597

AUTHOR: Kil'chevs'kyy, M. O. (Corresponding member AN UkrSSR); Kostyuk, E. M. 1/2

ORG: Institute of Mechanics, AN UkrSSR (Instytut mekhaniky AN UkrSSR) 5

TITLE: Dynamic interaction in gear transmissions due to deformation of teeth 1/2

SOURCE: AN UkrSSR. Dopovidi, no. 5, 1966, 593-597 1/2

TOPIC TAGS: mechanical power transmission device, transmission gear, material deformation

ABSTRACT: Local dynamic effects are examined in gear transmissions under Timoshenko-Hertz conditions. Errors due to poor workmanship, friction, and contact slip are neglected, as are the elastic forces on the gear shafts. Thus, the study is restricted to the dynamic torsion forces on the wheel shafts and the deformation of the teeth. Timoshenko's theory of collisions is used to formulate the relations describing the dynamic interactions due to tooth deformation. The results, obtained for spur gears, can be directly extended to bevel gears. Orig. art. has: 9 formulas. [JMS: 36,712]

SUB CODE: 13, 20 / SUBM DATE: 21Jun65 / ORIG REF: 009

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Card 1/1

09/9 2505

KOSTYUK, D.I., prof.

Determining the tooth form factor of a gear wheel with an  
internal rim. Izv. vys. ucheb. zav.; mashinestr. no.4:16-21  
'65. (MIRA 18:5)

1. Khar'kovskiy aviateionnyy institut.